$$\frac{\alpha \mathcal{J} \mathcal{90}}{0702}$$

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See page 6

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                RAW SEQUENCE LISTING              DATE: 07/03/2002
                PATENT APPLICATION:  US/09/976,601A    TIME: 14:13:48

                Input Set : A:\00-713-il6 Rev seq list.txt
                Output Set: N:\CRF3\07032002\I976601A.raw

        3 <110> APPLICANT: Mirkin, Chad A.
        4        Letsinger, Robert L.
        5        Mucic, Robert C.
        6        Storhoff, James J.
        7        Elghanian, Robert
        8        Taton, Thomas A.
       10 <120> TITLE OF INVENTION: NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO
       11        AND USES THEREFOR
       13 <130> FILE REFERENCE: 00-713-il6
       15 <140> CURRENT APPLICATION NUMBER: 09/976,601A
C--> 16 <141> CURRENT FILING DATE: 2001-10-15
       18 <150> PRIOR APPLICATION NUMBER: 09/603,830
       19 <151> PRIOR FILING DATE: 2000-06-26
       21 <150> PRIOR APPLICATION NUMBER: 09/344,667
       22 <151> PRIOR FILING DATE: 1999-06-25
       24 <150> PRIOR APPLICATION NUMBER: 09/240,755
       25 <151> PRIOR FILING DATE: 1999-01-29
       27 <150> PRIOR APPLICATION NUMBER: PCT/US97/12783
       28 <151> PRIOR FILING DATE: 1997-07-21
       30 <150> PRIOR APPLICATION NUMBER: 60/031,809
       31 <151> PRIOR FILING DATE: 1996-07-29
       33 <150> PRIOR APPLICATION NUMBER: 60/200,161
       34 <151> PRIOR FILING DATE: 2000-04-26
       36 <160> NUMBER OF SEQ ID NOS: 64
       38 <170> SOFTWARE: Microsoft Word 2000
       40 <210> SEQ ID NO: 1
       41 <211> LENGTH: 20
       42 <212> TYPE: DNA
       43 <213> ORGANISM: Artificial Sequence
       45 <220> FEATURE:
       46 <223> OTHER INFORMATION: Description of Artificial Sequence:random
       47        synthetic sequence
       49 <400> SEQUENCE: 1
       50 aaacgactct agcgcgtata                                      20
       53 <210> SEQ ID NO: 2
       54 <211> LENGTH: 20
       55 <212> TYPE: DNA
       56 <213> ORGANISM: Artificial Sequence
       58 <220> FEATURE:
       59 <223> OTHER INFORMATION: Description of Artificial Sequence:random
       60        synthetic sequence
       62 <400> SEQUENCE: 2
       63 atggcaacta tacgcgctag                                      20
```

```
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 67 <211> LENGTH: 16
 68 <212> TYPE: DNA
 69 <213> ORGANISM: Artificial Sequence
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Description of Artificial Sequence:random
 73       synthetic sequence
 75 <400> SEQUENCE: 3
 76 ccttgagatt tccctc                                             16
 79 <210> SEQ ID NO: 4
 80 <211> LENGTH: 16
 81 <212> TYPE: DNA
 82 <213> ORGANISM: Artificial Sequence
 84 <220> FEATURE:
 85 <223> OTHER INFORMATION: Description of Artificial Sequence:random
 86       synthetic sequence
 88 <400> SEQUENCE: 4
 89 gagggaaatc tcaagg                                             16
 92 <210> SEQ ID NO: 5
 93 <211> LENGTH: 18
 94 <212> TYPE: DNA
 95 <213> ORGANISM: Artificial Sequence
 97 <220> FEATURE:
 98 <223> OTHER INFORMATION: Description of Artificial Sequence:random
 99       synthetic sequence
101 <400> SEQUENCE: 5
102 aacttgcgct aatggcga                                           18
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 26
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Description of Artificial Sequence:random
112       synthetic sequence
114 <400> SEQUENCE: 6
115 aagttgcgct ttacggctaa tggcga                                  26
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 15
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence:random
125       synthetic sequence
127 <400> SEQUENCE: 7
128 tctccttccc ttttc                                              15
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 15
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 07/03/2002
PATENT APPLICATION: US/09/976,601A   TIME: 14:13:48

Input Set : A:\00-713-i16 Rev seq list.txt
Output Set: N:\CRF3\07032002\I976601A.raw

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136 <220> FEATURE:
137 <223> OTHER INFORMATION: Description of Artificial Sequence:random
138       synthetic sequence
140 <400> SEQUENCE:. 8
141 gaaaagggaa ggaga                                              15
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145 <211> LENGTH: 15
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence:random
151       synthetic sequence
153 <400> SEQUENCE: 9
154 cttttccctt cctct                                              15
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 28
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence:random
164       synthetic sequence
166 <400> SEQUENCE: 10
167 aaacgactct agcgcgtata gttgccat                                28
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 28
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence:random
177       synthetic sequence
179 <400> SEQUENCE: 11
180 atggcaacta tacgcgctag agtcgttt                                28
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 15
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence:random
190       synthetic sequence
192 <400> SEQUENCE: 12
193 cctatcgacc atgct                                              15
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 30
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence:random
203       synthetic sequence
205 <400> SEQUENCE: 13
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206 agcatggtcg ataggaaacg actctagcgc                              30
209 <210> SEQ ID NO: 14
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211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence:random
216       synthetic sequence
218 <400> SEQUENCE: 14
219 gcgctagagt cgttt                                              15
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 30
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence:random
229       synthetic sequence
231 <400> SEQUENCE: 15
232 agcatggtcg ataggatggc aactatacgc                              30
235 <210> SEQ ID NO: 16
236 <211> LENGTH: 24
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence:random
242       synthetic sequence
244 <400> SEQUENCE: 16
245 gtcgatagga aacgactcta gcgc                                    24
248 <210> SEQ ID NO: 17
249 <211> LENGTH: 30
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence:random
255       synthetic sequence
257 <400> SEQUENCE: 17
258 agcatggttg ataggaaacg actctagcgc                              30
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262 <211> LENGTH: 30
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence:random
268       synthetic sequence
270 <400> SEQUENCE: 18
271 agcatgtttg ataggaaacg actctagcgc                              30
274 <210> SEQ ID NO: 19
275 <211> LENGTH: 12
276 <212> TYPE: DNA
```

```
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence:random
281       synthetic sequence
283 <400> SEQUENCE: 19
284 tctcaactcg ta                                                   12
287 <210> SEQ ID NO: 20
288 <211> LENGTH: 12
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence:random
294       synthetic sequence
296 <400> SEQUENCE: 20
297 cgcattcagg at                                                   12
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 24
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence:random
307       synthetic sequence
309 <400> SEQUENCE: 21
310 tacgagttga gagagtgccc acat                                      24
313 <210> SEQ ID NO: 22
314 <211> LENGTH: 24
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Description of Artificial Sequence:random
320       synthetic sequence
322 <400> SEQUENCE: 22
323 tacgagttga gaatcctgaa tgcg                                      24
326 <210> SEQ ID NO: 23
327 <211> LENGTH: 24
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Description of Artificial Sequence:random
333       synthetic sequence
335 <400> SEQUENCE: 23
336 tacgagttga gaatcctgaa tgct                                      24
339 <210> SEQ ID NO: 24
340 <211> LENGTH: 24
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Description of Artificial Sequence:random
346       synthetic sequence
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/03/2002
PATENT APPLICATION: US/09/976,601A   TIME: 14:13:49

Input Set : A:\00-713-i16 Rev seq list.txt
Output Set: N:\CRF3\07032002\I976601A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:57; N Pos. 8

VERIFICATION SUMMARY   DATE: 07/03/2002
PATENT APPLICATION: **US/09/976,601A**   TIME: 14:13:49

Input Set : **A:\00-713-i16 Rev seq list.txt**
Output Set: **N:\CRF3\07032002\I976601A.raw**

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0